Design Principles/Patterns Foundation Spring AU 2021

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Assignment

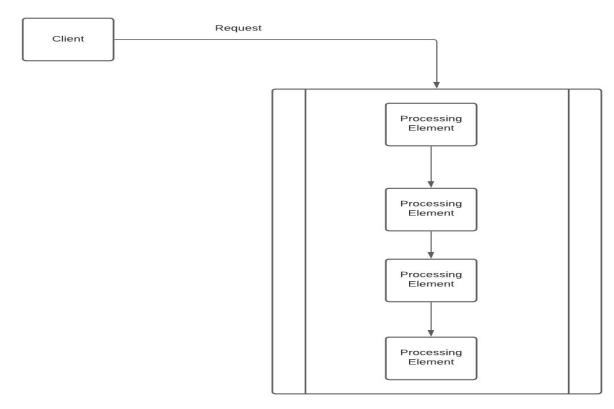
- 1. Class diagram and description of Chain of responsibilities design Pattern
- 2. Example(Java Classes) for Prototype(Creational) or Flyweight(Structural)

1. Chain of responsibilities design pattern

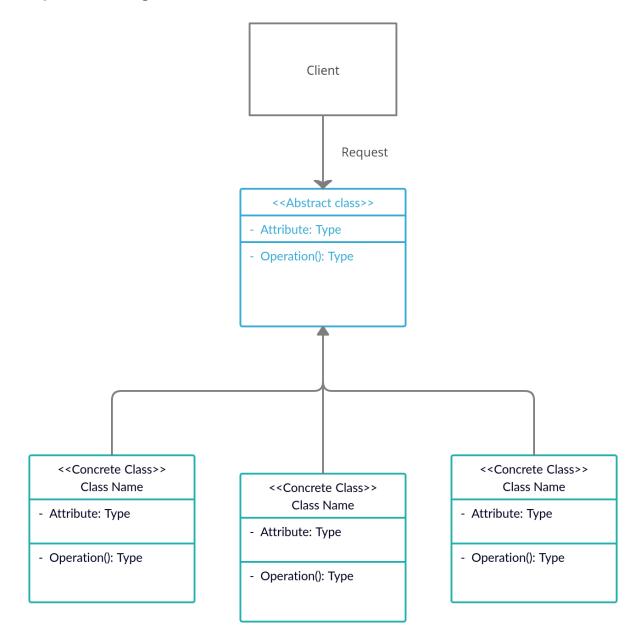
It's one of the GoF design patterns in which there is a source command object and a series of processing objects.

The processing objects handle a specific type of request or process and pass the request onto the next object in the chain if any.

Typical scenario:



Sample Class diagram:



Example Scenario (Chain 1 -> 2 -> 3 ...):

- 1. Login with username
- 2. Validate username
- 3. Send OTP
- 4. Prompt to enter OTP
- 5. Validate OTP
- 6. If valid go to success page or else failure page

The transaction chain fails if any of the processes fails

2. Code for prototype design pattern has been added as a separate folder.

Screenshot:

